

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Applications
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

January 15, 2004

S I R:

Transmitted herewith for filing are the specification and claims
 of the patent application of:

Peter Brink, Ira Cohen, Richard Robinson and Michael Rosen for
 Inventor(s)

Mesenchymal Stem Cells as a Vehicle for Ion Channel Transfer
in Syncytial Structures
 Title of Invention

Also enclosed are:

 X 10 sheet(s) of informal X formal drawings.

 Oath or declaration of Applicant(s).

 A power of attorney.

 An assignment of the invention to .

 A Preliminary Amendment

 A verified statement to establish small entity status
 under 37 C.F.R. § 1.9 and § 1.27.

The filing fee is calculated as follows:

CLAIMS AS FILED, LESS ANY CLAIMS CANCELLED BY AMENDMENT

					RATE		FEE		
	NUMBER FILED		NUMBER EXTRA*		SMALL ENTITY	OTHER ENTITY		SMALL ENTITY	OTHER ENTITY
Total Claims	64-20	=	44	X	\$9.00	\$18.00	=	\$396.00	\$
Independent Claims	13-3	=	10	X	\$42.00	\$84.00	=	\$420.00	\$
Multiple Dependent Claims Presented: <u> </u> Yes <u>X</u> No					\$	\$		\$	\$
					BASIC FEE			\$375.00	\$
*If the difference in Col. 1 is less than zero, enter "0" in Col.2					TOTAL FEE			\$1191.00	\$

011504

15992 U.S. PTO

31355 U.S. PTO
10/757827

011504

X Check in the amount of \$ 1,191.00 is enclosed.
(\$375.00 for filing fee, \$396.00 for additional
dependent claims and \$420.00 for additional
independent claims).

 Please charge Deposit Account No. in the
amount of \$.

 X The Commissioner is hereby authorized to charge any
additional fees which may be required in connection
with the following or credit any over-payment to
Account No. 03-3125.

 X Filing fees under 37 C.F.R. § 1.16.

 X Patent application processing fees under 37
C.F.R. § 1.17.


 The issue fee set in 37 C.F.R. § 1.18 at or
before mailing of the Notice of Allowance,
pursuant to 37 C.F.R. § 1.311(b).

 X Three copies of this sheet are enclosed.

 A certified copy of previously filed foreign
application No. filed in
 on .
Applicant(s) hereby claim priority based upon this
aforementioned foreign application under 35 U.S.C.
§119.

 X Other (identify). Express Mail Certificate of
Mailing bearing label No. EL 837 182 422 US dated
January 15, 2004.

Respectfully submitted,



John P. White
Registration No. 28,678
Peter J. Phillips
Registration No. 29,691
Attorneys for Applicants
Cooper and Dunham LLP
1185 Avenue of the Americas
New York, New York 10036
(212) 278-0400

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Peter Brink et al.
Serial No.: Not Yet Known
Filed: Herewith
For: MESENCHYMAL STEM CELLS AS A VEHICLE FOR ION
CHANNEL TRANSFER IN SYNCYTIAL STRUCTURES

1185 Avenue of the Americas
New York, New York 10036
January 15, 2004

Mail Stop Patent Applications
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SIR:


**EXPRESS MAIL CERTIFICATE OF MAILING
FOR ABOVE-IDENTIFIED APPLICATION**

"Express Mail" mailing label number: EL 837 182 422 US
Date of Deposit: January 15, 2004 I hereby certify that
this paper or fee is being deposited to the United States Postal
Service "Express Mail Post Office to Addressee" service under 37
C.F.R. §1.10 on the date indicated above and is addressed to the
Mail Stop Patent Applications, Commissioner for Patents, P.O. Box
1450, Alexandria, VA 22313-1450:

Printed Name: _____


SAMUEL RHABO

Respectfully submitted,


John P. White
Registration No. 28,678
Peter J. Phillips
Registration No. 29,691
Attorneys for Applicants
Cooper & Dunham LLP
1185 Avenue of the Americas
New York, New York 10036
Tel (212) 278-0400